

# STATE ACTION PLAN

North Dakota Department of Transportation

Planning & Asset Management Division

Planning & Rail Section

Effective Date: February 11, 2022



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# Highway-Rail Grade Crossing STATE ACTION PLAN

#### Introduction

The Federal Railroad Administration (FRA) issued a final rule in response to the Fixing America's Surface Transportation Act (FAST Act) requiring 40 States and the District of Columbia to develop and implement highway-rail grade crossing action plans. This final rule is effective 13 January 2021.

This final rule revises FRA's regulation (49 CFR 234.11) on State Highway-Rail Grade Crossing Action Plans (Action Plans) to require 40 States and the District of Columbia (DC) to develop and implement FRA-approved Action Plans. The final rule further provided these Action Plans identify specific solutions for improving safety at crossings, including highway-rail grade crossing closures or grade separations, and must focus on crossings that have experienced multiple collisions, or are at high risk for such collisions.

The North Dakota Department of Transportation (NDDOT) Planning/Rail Section has developed this Action Plan to conform with the revised requirements of 49 CFR Part 234.11, Subpart B.

#### **Scope and Objective**

In accordance with 49 CFR 234.11, an Action Plan, hereinafter referred to as the Plan, requires an analysis of five-years of highway-rail and pathway grade crossing crash data to evaluate safety improvement needs. The Plan emphasizes road user safety at highway-rail grade crossings and will be effective for a five (5) year period when approved.

NDDOT uses funding from the Highway Safety Improvement Program provided by the Federal Highway Administration (FHWA) to make safety enhancements to highway-rail grade crossings per the 23 USC § 130. This funding is referred to in the Plan as the Section 130 Program and is limited to use at public highway-rail grade crossings. Although NDDOT's highway-rail crossing funding source can only impact public crossings, all crossing types are included in this plan per the CFR requirements. North Dakota Century Code (N.D.C.C.) 49-11-00.1 deems a crossing "public" if a public authority maintains the roadway, including associated sidewalks or pathways, on both sides of the crossing. References to a "crossing" or "crossings" refer only to public highway-rail grade crossings, as defined in N.D.C.C., unless otherwise indicated.

The Section 130 Program is 100% federally funded per Infrastructure Investment and Job Act (IIJA). This program is designed to provide enhanced safety measures, new signalization, signal upgrades on antiquated equipment, crossing relocation and surface rehabilitation or panel extension at between 35 - 45 highway-rail grade crossings across



North Dakota annually. North Dakota is allocated \$5.22 million dollars each year. These federal funds are obligated for eligible highway-rail grade crossing improvement projects

Highway-rail crossing warning devices are classified in two categories, passive or active. Passive warning devices typically consist of crossbucks, warning signs, regulatory signs, and pavement markings. Passive crossings refer to crossings without active warning devices. Active warning devices typically consist of automatic gates, and/or flashing lights and bells. Hereinafter references to "gates" or "gated crossing" refer to crossings equipped with automatic gates, flashing lights and bells.

The objective of the Plan is to identify specific solutions to mitigate crashes between trains or on-track equipment, pedestrians, and/or vehicles at crossings. Crash is a widely used term within the traffic engineering field and refers to collisions, accidents, or wrecks. The term crash hereinafter should be understood to refer to such occurrences.

The Plan focuses on existing at-grade crossings with crash history or other risk factors that could cause multiple crashes at the crossing. The Rail Safety Improvement Act of 2008 recognized that multiple crash crossings account for a disproportionately high number of total crashes and offer the greatest opportunity for crash reduction. Multiple crash crossings are defined as any crossing that has experienced more than one crash during the Plan's timeframe (2016 – 2020). During this timeframe, there was one crossing in the state that meets the definition of a multiple crash crossing. As you can see from the table below, there has also been a trending decline in highway-rail crossing crashes in North Dakota.

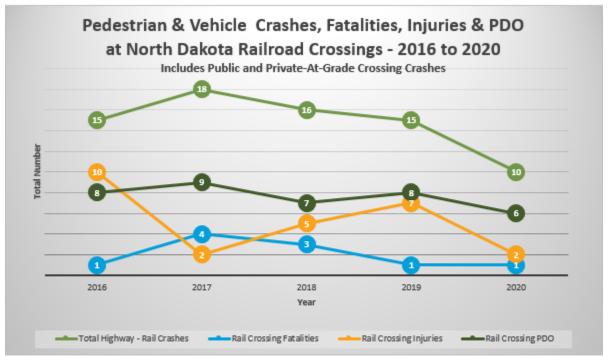


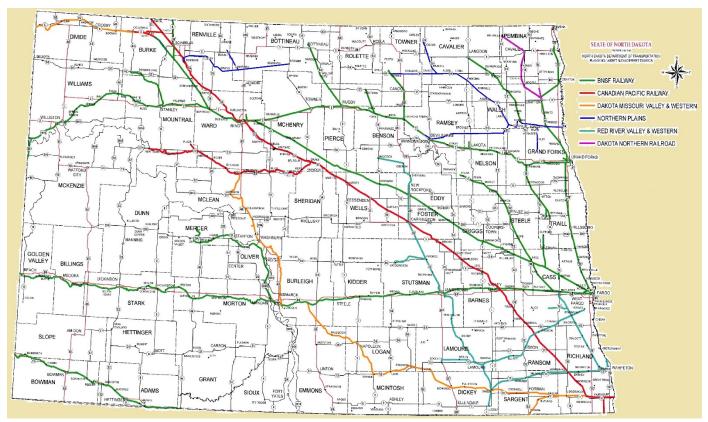
Figure 1 SOURCE:

https://safetydata.fra.dot.gov/OfficeofSafety/publicsite/Query/ConsolidatedHwyRailIncidentsSQL.aspx

Note: 55a Reports from confirmed suicides/attemped suicides are removed by rule.



#### North Dakota Rail System



Historically, railroad operations in North Dakota were oriented to the movement of goods between geographical population and industrial centers, such as Midwest agricultural markets, coastal export facilities, and southern and Gulf Coast refineries. Through the years, these routes were integrated into a comprehensive national rail network. This has worked to North Dakota's advantage as new industries seek transportation efficiency. Case in point, the emergence of an intermodal facility in Minot, ND. This facility enables goods to be loaded into containers and transported directly to coastal ports without first having to be trucked to a Minneapolis, MN intermodal facility for loading.

The map above depicts the statewide rail network as of 2020. According to the most recent State Rankings Report by the Association of American Railroads (AAR), total miles of railroad operated in the state is 3,223 miles. As defined by the AAR, "miles of [rail]road" is the aggregate length of railway, excluding yard tracks and sidings, and does not reflect the fact that a mile of rail may include two, three, or more parallel tracks. Miles of rail operated, less trackage rights, which eliminates double counting caused by more than one railroad operating the same track, is the measure of the rail network. The amount of railroad mileage operated in North Dakota, by classification, including and excluding trackage rights is shown in the following table.

Miles Operated in North Dakota in 2020

Class of	Number of	Miles Operated	Miles Operated
Railroad	Freight Railroads	Excluding Trackage Rights	Including Trackage Rights
Class I	2	2,053	2,162
Regional	2	866	967
Short Line	2	352	352
Total	6	3,271	3,481

Source: North Dakota Public Service Commission.

#### I. Highway-Rail Crossing Safety Partners & Stakeholders

NDDOT's primary rail safety partnership is with Operation Lifesaver of the Dakotas through the North Dakota Safety Council (NDSC). The Operation Lifesaver of the Dakotas State Coordinator, a representative from NDSC, chairs the committee, comprised of a variety of representatives, including federal, State and local government agencies, highway safety organizations, law enforcement, and operating railroads in North and South Dakota and their suppliers. Committee members include representatives from:

- FRA
- NDDOT
- South Dakota Department of Transportation
- North Dakota Public Service Commission (PSC)
- North Dakota Highway Patrol
- NDSC
- Moorhead, MN Police Department
- BNSF Railway
- BNSF Police
- Canadian Pacific Railway (CP)
- CP Police
- Dakota, Missouri Valley & Western Railroad (DMVW)
- Northern Plains Railroad (NPR)
- Red River Valley & Western Railroad (RRVW)
- WATCO

The Operation Lifesaver of the Dakotas program supports three critical principals:

**Education:** Operation Lifesaver strives to provide education to people of all ages about the hazards at highway-rail crossings. Methods used to reach the public include civic presentations, early elementary and driver education curriculum activities, school bus driver training, industrial safety, law enforcement training, and media coverage.

**Enforcement:** Along with education, enforcement is necessary to provide rules and regulations to motorist and pedestrian as to the rights and responsibilities at highway-rail crossings.

**Engineering:** Highway-rail crossings must be kept as physically and



operationally as safe as possible, with improvements made where needed. The public should be educated about federal, state and railroad programs that plan, install and maintain grade crossings.

Operation Lifesaver of the Dakotas and its partners conduct annual public information campaigns and, "Rail Safety Blitzes", in designated areas. Locations and dates are identified to meet increased heavy truck traffic and tourist activity. A spring Blitz is held in the western portion of the state as oil production and truck traffic increase and a fall Blitz is held in the eastern portion of the state as the annual crop harvest brings increased traffic and out-of-state labor.

When North Dakotans encounter a hazard at a highway-rail grade crossing, or a blocked crossing, they are encouraged to call the number on the Emergency Notification System (ENS) sign and inform the railroad company dispatcher of the issue and crossing identifier depicted on the sign. Additionally, the public is encouraged to log the blocked crossing utilizing the FRA Blocked Crossing Incident Reporter. If a highway-rail grade crossing is consistently blocked, they are also encouraged to contact the North Dakota Public Service Commission to report the situation.

Additionally, NDDOT involves other internal and statewide safety partners/stakeholders through annual highway-rail crossing safety solicitation letters to identify public highway-rail crossing concerns. These concerns are solicited from:

- North Dakota's three Metropolitan Planning Organizations
- City Engineers from ND's 12 major cities: Williston, Dickinson, Minot, Mandan, Bismarck, Devils Lake, Jamestown, Valley City, Grand Forks, West Fargo, Fargo, and Wahpeton.
- North Dakota League of Cities
- North Dakota Association of Counties
- North Dakota Township Officers' Association
- North Dakota Public School Districts
- Five federally recognized Tribal Nations and Indian community within North Dakota: the Sisseston-Wahpeton Oyate Nation; the Mandan, Hidatsa & Arikara Nation (Three Affiliated Tribes); the Spirit Lake Nation; the Standing Rock Sioux Tribe; the Turtle Mountain Band of Chippewa Indians, and the Trenton Indian Service Area.
- Operation Lifesaver of the Dakotas
- NDDOT District Engineers
- Operating Railroads within North Dakota; and
- North Dakota Highway Patrol.

Finally, the PSC hosts a Rail Safety and Stakeholders Roundtable Discussion annually, of which NDDOT is an active participant. This forum offers an opportunity for stakeholders from the transportation, agriculture, community, law enforcement, and first responder agencies and entities to discuss issues or concerns with representatives from each of North Dakota's operating railroads. It also allows these entities to establish direct contact with each railroad to resolve local rail-related concerns and issues.



#### II. Public At-Grade Crossing Crashes

Despite having 3,294 public and 1,090 private at-grade crossings in North Dakota<sup>1</sup>, the amount of vehicle/train crashes annually remains low. Multiple crashes at highway-rail grade crossings rarely occur in North Dakota for a few apparent reasons. First, it has been identified that a portion of these collisions are caused by driver behavior, consisting of items and actions within the vehicle that distract the driver (i.e., cell phones, radio, passengers.) A second reason is the complacent driver. This driver travels over the same crossing regularly with intense focus on the destination. The complacent driver becomes unaware of actual dangers of the potential of an approaching train from either direction because they rarely encounter a train at that crossing. Neither driver age nor impaired drivers seem to be contributors to highway-rail crossing crashes.

When there is a highway-rail grade crossing crash, regardless of the severity, efforts are made to determine the root cause(s). First, an assessment is conducted by first reviewing the crash report, which often identifies why the highway-rail grade crossing crash occurred. Second, a field investigation may be scheduled to identify whether a predominant correctable characteristic exists. A diagnostic team comprised of the NDDOT, the rail operator, and the local public agency (LPA), also known as road authority, is assembled and meets during the field investigation to discuss, collaborate, and reach consensus on appropriate countermeasures to implement at the crossing. Once implemented, those countermeasures enhance the safety and proactively prevent future similar crashes, ideally reducing the number of overall crashes in the state.

Existing strategies in place to reduce the number of crashes include:

- 1. Identify the 25 top ranked passive crossings from the FRA Web Accident Prediction System (FRA Predictor) that have not previously been identified.
- 2. Solicit input from LPAs, tribal nations, and railroad operators for rail safety concerns within their jurisdictions.
- 3. Encourage local public agencies to implement educational and enforcement policies, while partnering with their local operating railroad(s) on safety concerns.

Although multiple crossing crashes are infrequent in North Dakota, the NDDOT continues to identify the location and frequency of all highway-rail crashes and incidents to reduce them. While no measure is infallible, implementing a strategy to reduce the number of incidents is the first step to resolving future issues.

NDDOT's methodology for identifying deficient crossings starts with the FRA Predictor. The FRA Predictor uses several variables to rank each specific crossing. These factors include:

- 5-year crash history,
- Train volumes and speeds per day,

<sup>&</sup>lt;sup>1</sup> As found on FRA's website <a href="https://safetydata.fra.dot.gov/OfficeofSafety/publicsite/Query/invtab.aspx">https://safetydata.fra.dot.gov/OfficeofSafety/publicsite/Query/invtab.aspx</a> and set for North Dakota to generate a report of at-grade crossings.



- Total number of tracks,
- Annual Average Daily Traffic (vehicles),
- Type of warning device,
- Total roadway lanes, and
- Roadway surface type (paved or unpaved).

The NDDOT Protective Devices Calculator, created by the Planning/Rail Section shown in Appendix C, provides the following additional risk factors for consideration:

- type of roadway users,
- proximity to schools,
- · surrounding area population density,
- · crossing geometrics, and
- approach characteristics.

All these factors are critical in determining a strategy to reduce potential high-risk publicat-grade crossings and identify crossing risk values. Crossings are monitored annually after the installation of the identified safety countermeasure(s).

If the proposed countermeasures fail to produce the desired outcome at the grade crossing, other alternatives will be considered by the diagnostic team. Follow up action may require installation of active warning devices at the grade crossing.

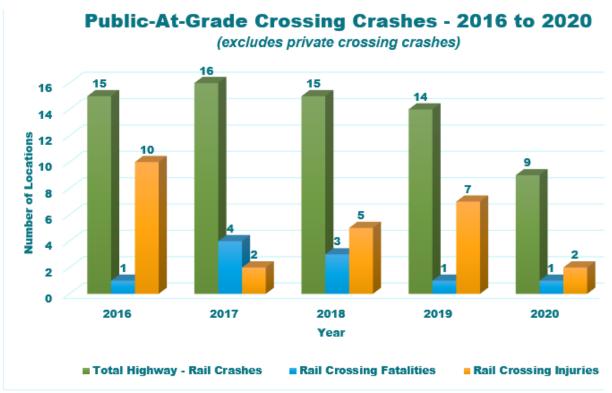


Figure 1 SOURCE:

https://safetydata.fra.dot.gov/OfficeofSafety/publicsite/Query/ConsolidatedHwyRailIncidentsSQL.aspx
Note: 55a Reports from confirmed suicides/attemped suicides are removed by rule.



#### **Recent Crashes at Crossings**

The following table shows all crashes statewide for all railroads in the past 3 years (2018-2020).

	Crossing ID	County/City	Total Crashes	Fatal Crashes	Total Fatalities	Injury Crashes	Total Injuries
1	093505M	EDDY/NEW ROCKFORD	1	1	1		
2	093315J	MOUNTRAIL/ROSS	1	1	1		
3	086867G	TRAILL/BUXTON	1	1	1		
4	698955H	WARD/FOXHOLM	1	1	1		
5	093373E	WILLIAMS/EPPING	1	1	1		
6	093347P	WILLIAMS/TIOGA	1	1	1.		
7	690357S	RICHLAND/LIDGERWOOD	1			1	3
8	394028D	BOWMAN/GASCOYNE	1			1	2
9	071180U	BARNES/VALLEY CITY	1			1	1
10	071089B	CASS/MAPLETON	1			1	1
11	103428V	DICKEY/OAKES	1			1	1
12	698719D	FOSTER/LEMERT	1			1	1
13	081329H	GRAND FORKS/GRAND FORKS	1			1	1
14	086877M	GRAND FORKS/LARIMORE	1			1	1
15	693360K	MOUNTRAIL/NEW TOWN	1			1	1
16	0933295	MOUNTRAIL/WHITE EARTH	1			1	1
17	087791G	STUTSMAN/CLEVELAND	1			1	1
18	691919N	BARNES/VALLEY CITY	1				
19	093485D	BENSON/YORK	1				
20	087674L	BURLEIGH/BISMARCK	1				
21	087739C	BURLEIGH/MOFFIT	1				
22	071100Y	CASS/CASSELTON	1				
23	070809N	CASS/FARGO	1				
24	070832H	CASS/FARGO	1				
25	093035G	CASS/PAGE	1				
26	093442K	EDDY/NEW ROCKFORD	1				
27	093445F	EDDY/NEW ROCKFORD	1				
28	086772Y	GRAND FORKS/EMERADO (private)	1				
29	062508X	GRAND FORKS/GRAND FORKS	1				
30	081290G	GRAND FORKS/GRAND FORKS	1				
31	945750W	GRAND FORKS/GRAND FORKS (private)	1				
32	086844A	GRAND FORKS/THOMPSON	1				
33	087527Y	MORTON/HEBRON	1				
34	093313V	MOUNTRAIL/ROSS	1				
35	093326W	MOUNTRAIL/WHITE EARTH	1				
36	086658Y	RAMSEY/CRARY	1				
37	691790N	RICHLAND/FAIRMOUNT	1				
38	062545A	WALSH/MINTO (private)	1				
39	698933H	WARD/MINOT	1				
40	698914D	WARD/MINOT	1				
41	698755Y	WELLS/FESSENDEN	1				<u> </u>
			41	6	6	11	14

### **Crossings with Multiple Crashes**

In the past five years (2016-2020), there was only one highway-rail grade crossing with more than one crash in North Dakota. The crossing experienced two crashes (one in 2017 and another in 2018) and was equipped with flashing lights and gates during both crashes.



#### **III. Grade Crossing Separations**

Grade crossing separations can be a feasible alternative to resolve a high frequency crash problem at grade crossings.

Separations are normally considered during planning and preliminary engineering phases of roadway construction or maintenance. Grade separations are included in the construction phase of major contracts when there is a positive benefit cost ratio. These structures cost more than the full annual funding made available and require environmental analysis, acquisition of right-of-way, along with additional Federal requirements to qualify for the Section 130 Program funding.

Grade separations are always reviewed as an alternative to eliminate a safety issue but are seldom used because many do meet federal guidance for consideration<sup>2</sup> or fail to create a positive benefit-cost analysis.

#### **IV. Crossing Closures**

Permanent at-grade public crossing closures is a consideration during field investigation diagnostics, planning, and preliminary engineering of roadway project phases. Grade crossing closures may offer a reasonable alternative resolution for a high frequency crash problem at low volume, low speed grade crossings.

While NDDOT does not pursue crossing closures on its own, NDDOT will work with the operating railroad to close any crossing approved for closure by a LPA. NDDOT will procure Section 130 Program funds to be used as an incentive payment to the LPA for the permanent closure of a crossing. NDDOT will match the incentive payment for the grade crossing closure paid by the railroad up to the maximum allowed by the federal regulations for Section 130 Program. The LPA receiving an incentive payment from the State must identify transportation safety improvements within their jurisdiction to be completed within 18 months from receipt of funding, as verified by the NDDOT Planning/Rail Section. The following are summaries of crossing closures from 2016 – 2020 by the two Class I railroads operating in North Dakota.

<sup>&</sup>lt;sup>2</sup> <u>Highway-Rail Crossing Handbook - Third Edition - Safety | Federal Highway Administration (dot.gov)</u>



**Summary of BNSF Crossings Closed in North Dakota 2016-2020** 

Crossing Type	Crossing Purpose	Crossing Position	Number Closed
Public	Highway-Rail Crossing	At-Grade	112
Private	Highway-Rail Crossing	At-Grade	110
Public	Highway-Rail Crossing	Grade-Separated	7
Private	Highway-Rail Crossing	Grade-Separated	6
BLANK	Pedestrian Pathway Crossing	At-Grade	5
BLANK	Pedestrian Pathway Crossing	Grade-Separated	1
Private	BLANK	At-Grade	7
Public	BLANK	At-Grade	1
Total At-G	235		
Total All C	losed		249

Source: FRA SafetyData, Inventory data as reported to FRA by States and railroads

**Summary of SOO\* Crossings Closed in North Dakota 2016-2020** 

Crossing Type	Crossing Purpose	Crossing Position	Number Closed
Private	Highway-Rail Crossing	At-Grade	106
Public	Highway-Rail Crossing	At-Grade	59
Private	Pedestrian Pathway Crossing	At-Grade	1
Public	Highway-Rail Crossing	Grade-Separated	1
Total At-G	166		
Total All C		167	

Source: FRA SafetyData, Inventory data as reported to FRA by States and railroads \*CP Operates in the USA as SOO

#### V. High Speed Rail Corridors

NDDOT is not currently pursuing high speed rail corridors. NDDOT does participate in the Midwest Intercity Passenger Rail Coalition to support passenger rail in North Dakota. Due to the high costs associated with high-speed rail corridors, projects are not generally economically feasible due to:

- Purchase of right-of-way
- Number of at-grade-crossings
- Separated grade crossings, i.e. bridges spanning creeks and rivers
- Environmental impact
- Lack of ridership

#### VI. Pedestrians

With moderate pedestrian volumes and low incident rates in the downtown areas of the 12 major cities in North Dakota, pedestrian safety at public crossings have effectively

been addressed. The application of various pedestrian gates and mazes were implemented by six of the major cities with compliant quiet zones. Major cities with established quiet zones include: Fargo, Grand Forks, Minot, Mandan, Bismarck, and Jamestown. The railroad tracks in the remaining major cities circumvent the densely populated downtown business districts.

A low cost and effective safety device for pedestrians and disabled pedestrians at railroad tracks are stop, look, and listen signs.

Amtrak has seven depot stations in North Dakota, located in Fargo, Grand Forks, Devils Lake, Rugby, Minot, Stanley, and Williston. All depots are situated so pedestrians/riders are not required to cross the tracks to board the train from the depot platform.

#### **VII. Innovative Technologies at Grade Crossings**

To date, the most innovative project completed was a signal upgrade on an antiquated system that included the installation of preempted flashing LED advance warning signs. The crossing project was initiated by train crews and NDDOT personnel observations at the crossing. The single mainline crossing is in a valley, where both approaches are downhill to the crossing and was experiencing increases in oil traffic with heavy semi-trucks carrying hazardous material. The crossing is located on US-52 north of Kenmare, North Dakota. Below are the specifics related to the project:

Project Number: SHE-RPS-4-052(077)040 PCN: 20290

90% Federal Cost: \$230,503.50 10% State Cost: \$25,611.50 Total Cost: \$256,115.00

#### **VII. Determining High Priority Crossings**

High risk highway-rail crossing locations are identified on an annual basis for office review and field diagnostics. NDDOT's annual process is shown in the Highway-Rail Program Prioritization Process Flowchart in Appendix B.

According to the Highway-Rail Program Prioritization Process (Appendix B), the NDDOT Highway-Rail Crossing Safety Manager prepares a program spreadsheet from recently received crossing concerns from the annual solicitation letter submitted by the 3 MPOs and 10 other agencies throughout the State. Once a pool of candidates is identified requiring potential active warning devices, all individual crossings are entered into both the FRA Crash Predictor and the NDDOT Protective Devices Calculator, where they receive a "crossing risk value". The FRA Crash Predictor addresses these risk factors: 5-year crash history, train volumes and speeds per day, total number of tracks, Annual Average Daily Traffic (vehicles), type of warning device, total roadway lanes, and roadway surface type (paved or unpaved). Additional risk factors, such as sight distance, roadway geometry and others, are discussed on site per the NDDOT Protective Devices Calculator (Appendix C). The September 2020 program spreadsheets may be viewed in Appendix D with related refined rankings in Appendix E.



All newly created crossing risk values on the program spreadsheet are compared and ranked with the previously calculated crossings. If a crossing's risk value is elevated over the defined threshold, the appropriate diagnostic team is contacted, and a field investigation is scheduled. The NDDOT manager will schedule the field investigation at each crossing identified and the team will make a collaborative determination of the safety measure(s) to be implemented. Details identified on site are used to update the Grade Crossing Inventory System. Field notes and the suggested safety measure(s) are shared with the Team to ensure all members agree. The field notes must be approved by the diagnostic team.

When a safety measure is identified and all agree, the NDDOT manager initiates the project by requesting cost estimates from the operating railroad. The cost estimates are shared with the diagnostic team, and the road authority/LPA is given notice of the 10% local match requirement. The NDDOT manager requests obligation of Section 130 Program funds and authorization from FHWA.

Railroad and LPA contracts are prepared from cost estimates received. The operating railroad gives notice of the start and the completion of the project. The NDDOT manager conducts a final inspection for compliance. This process can be found in Appendix B, which displays a process flowchart.

A total of 203 crossing projects received Section 130 Program funding for safety upgrades between 2016 through 2020 in North Dakota. Of those 203 crossings, the two operating Class I Railroads received safety projects on 130 crossings. The four operating Regional/Shortline Railroads in the State received 61 crossing safety upgrades. In addition, there were 12 crossing safety projects conducted on public grade crossings over elevator and industrial facility owned track.

#### VIII. Strategies

The NDDOT uses the following strategies to address safety concerns at rail crossings statewide:

- Identify crossing issues and concerns from local and regional stakeholders through annual solicitation process. Conduct diagnostic reviews of highestranking crossings;
  - o Timeline: Annually
- Identify opportunities to close high-risk/low-volume crossings in coordination with Railroads and other stakeholders and offer incentive funding through the Section 130 Program; Timeline: Annually.
- Prioritize replacement of antiquated signal systems (25+ years since installation);
  - Timeline: 5 years
- Update NDDOT grade crossing safety programs to incorporate changes from new legislation;
  - Timeline: 2 years.



Following are items NDDOT will consider as we update our programs and incorporate changes/modifications from passage of the Infrastructure Investment and Jobs Act of 2021

- Incentive funding for grade crossing closures can now be \$100,000 (up from \$7,500)
- o Federal share of crossing projects can now be 100% instead of 90%.
- o 8% of Section 130 Program can be spent on data collection, up from 2%.
- The FRA will also have a blocked crossing portal to monitor complaints about blocked crossings.
- The current accident prediction model used in the FRA Accident Prediction System is anticipated to be replaced.

#### IX. Additional Responsibilities

The North Dakota Department of Transportation's Point of Contact for implementation of the ND Highway-Rail Grade Crossing State Action Plan and related strategies:

Mr. James D. Styron, Highway-Rail Crossing Safety Manager

Planning/Asset Management Division

North Dakota Department of Transportation

608 E. Boulevard Avenue Bismarck, ND 58505-0700 Phone: 701-328-4409

Email: jstyron@nd.gov

The NDDOT Planning/Rail Section is also responsible for:

- Preparing responses to inquiries on highway-rail crossing signals, surfaces, crossing closures, rail activities and help coordinate highway construction projects where railroad crossings are involved.
- Conducting analysis of public at-grade rail crossings and developing a prioritized listing of signal and surface projects. This process includes facilitating consensus between the diagnostic team, that consists of the operating railroad, local road authority and the NDDOT on how to address safety concerns.
- Assisting with the development of local road authority sponsorship of all public atgrade crossing projects statewide. This can entail preparing urban/county agreements.
- Maintaining statewide railroad crossing inventory data through FRA Grade Crossing Inventory System and coordinating the rail GIS layer on NDDOT's website using Roadway Information Management System (RIMS) Viewer.



#### Appendix A - 49 CFR Part 234, Subpart B § 234.11

49 CFR Part 234, Grade Crossing Safety

§ 234.11 State highway-rail grade crossing action plans

(a) *Purpose.* The purpose of this section is to reduce accident/incidents at highway-rail and pathway grade crossings nationwide by requiring States and the District of Columbia to develop or update highway-rail grade crossing action plans and implement them. This section does not restrict any other entity from adopting a highway-rail grade crossing action plan. This section also does not restrict any State or the District of Columbia from adopting a highway rail grade crossing action plan with additional or more stringent requirements not inconsistent with this section.

#### (b) New Action Plans.

- (1) Except for the 10 States identified in paragraph (c)(3) of this section, each State and the District of Columbia shall develop a State highway-rail grade crossing action plan that addresses each of the required elements listed in paragraph (e) of this section and submit such plan to FRA for review and approval not later than February 14, 2022.
- (2) Each State and the District of Columbia shall submit its highway-rail grade crossing action plan electronically through FRA's website in Portable Document Format (PDF).

#### (c) Updated Action Plan and implementation report.

- (1) Each of the 10 States listed in paragraph (c)(3) of this section shall develop and submit to FRA for review and approval an updated State highway-rail grade crossing action plan that addresses each of the required elements listed in paragraph (e) of this section, not later than February 14, 2022.
- (2) Each of the 10 States listed in paragraph (c)(3) of this section shall also develop and submit to FRA, not later than February 14, 2022, a report describing:
  - (i) How the State implemented the State highway-rail grade crossing action plan that it previously submitted to FRA for review and approval; and
  - (ii) How the State will continue to reduce highway-rail and pathway grade crossing safety risks.
- (3) The requirements of this paragraph (c) apply to the following States: Alabama, California, Florida, Georgia, Illinois, Indiana, Iowa, Louisiana, Ohio, and Texas.
- (d) Electronic submission of updated Action Plan and implementation report. Each of the 10 States listed in paragraph (d)(2) of this section shall submit its updated highway-rail grade crossing action plan and implementation report electronically through FRA's website in PDF form.
- (e) Required elements for State highway-rail grade crossing action plans. Each State highway-rail grade crossing action plan described in paragraphs (b) and (c) of this section

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shall:

- (1) Identify highway-rail and pathway grade crossings that:
  - (i) Have experienced at least one accident/incident within the previous 3 years;
  - (ii) Have experienced more than one accident/incident within the previous 5 years; or
  - (iii) Are at high-risk for accidents/incidents as defined in the Action Plan. Each State or the District of Columbia that identifies highway-rail and pathway grade crossings that are at high-risk for accidents/incidents in its Action Plan shall provide a list of the factors that were considered when making this determination. At a minimum, these factors shall include:
  - (A) Average annual daily traffic;
  - **(B)** Total number of trains per day that travel through each crossing;
  - **(C)** Total number of motor vehicle collisions at each crossing during the previous 5-year period;
  - **(D)** Number of main tracks at each crossing;
  - **(E)** Number of roadway lanes at each crossing;
  - **(F)** Sight distance (stopping, corner and clearing) at each crossing;
  - (G) Roadway geometry (vertical and horizontal) at each crossing; and
  - **(H)** Maximum timetable speed;
- (2) Identify data sources used to categorize the highway-rail and pathway grade crossings in paragraph (e)(1) of this section;
- (3) Discuss specific strategies, including highway-rail grade crossing closures or grade separations, to improve safety at those crossings over a period of at least four years;
- **(4)** Provide an implementation timeline for the strategies discussed in paragraph (e)(3) of this section; and
- **(5)** Designate an official responsible for managing implementation of the State highway-rail grade crossing action plan.
- (f) Point of contact for State highway/rail grade crossing action plans.
  - (1) When the State or the District of Columbia submits its highway-rail grade crossing action plan or updated Action Plan and implementation report electronically through FRA's website, the following information shall be provided to FRA for the designated official described in paragraph (e)(5) of this section:
    - (i) The name and title of the designated official;

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- (ii) The business mailing address for the designated official;
- (iii) The email address for the designated official; and
- (iv) The daytime business telephone number for the designated official.
- (2) If the State or the District of Columbia designates another official to assume the responsibilities described in paragraph (e)(5) of this section before December 16, 2024, the State or the District of Columbia shall contact FRA and provide the information listed in paragraph (f)(1) of this section for the new designated official.

#### (g) Review and approval.

(1) FRA will update its website to reflect receipt of each new, updated, or corrected highway-rail grade crossing action plan submitted pursuant to this section.

**(2)** 

- (i) Within 60 days of receipt of each new, updated, or corrected highway-rail grade crossing action plan, FRA will conduct a preliminary review of the Action Plan to ascertain whether the elements prescribed in paragraph (e) of this section are adequately addressed in the plan.
- (ii) Each new, updated, or corrected State highway-rail grade crossing action plan shall be considered conditionally approved for purposes of this section sixty (60) days after receipt by FRA unless FRA notifies the designated official described in paragraph (e)(5) of this section that the highway-rail grade crossing action plan is incomplete or deficient.
- (iii) FRA reserves the right to conduct a more comprehensive review of each new, updated, or corrected State highway-rail grade crossing action plan within 120 days of receipt.
- (3) If FRA determines that the new, updated, or corrected highway-rail grade crossing action plan is incomplete or deficient:
  - (i) FRA will provide email notification to the designated official described in paragraph (e)(5) of this section of the specific areas in which the Action Plan is deficient or incomplete and allow the State or the District of Columbia to complete the plan and correct the deficiencies identified.
  - (ii) Within 60 days of the date of FRA's email notification identifying the specific areas in which the highway-rail grade crossing action plan is incomplete or deficient, the State or District of Columbia shall correct all deficiencies and submit the corrected State highway-rail grade crossing action plan to FRA for approval. The corrected highway-rail grade crossing action plan shall be submitted electronically through FRA's website in PDF format.

(4)

(i) When a new, updated, or corrected State highway-rail grade crossing action plan

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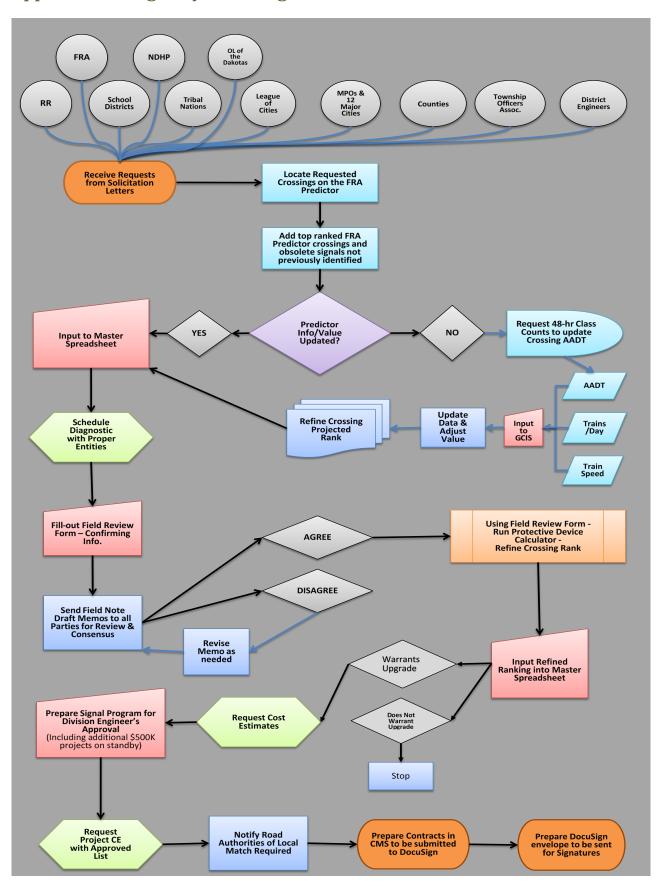
is fully approved, FRA will provide email notification to the designated official described in paragraph (e)(5) of this section.

- (ii) FRA will make each fully approved State highway-rail grade crossing action plan publicly available for online viewing.
- (iii) Each State and the District of Columbia shall implement its fully approved highway-rail grade crossing action plan.
- (h) *Condition for grants.* The Secretary of Transportation may condition the awarding of any grants under 49 U.S.C. Ch. 244 on the State's or District of Columbia's submission of an FRA approved State highway-rail grade crossing action plan under this section are adequately addressed in the plan.

[85 FR 80659, Dec. 14, 2020; 86 FR 10857, Feb. 23, 2021]

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Appendix B - Highway-Rail Program Prioritization Process Flowchart



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# PROTECTIVE DEVICES CALCULATOR

1	PRA Prediction Data As Of:  DOT#  23 USC §409 Docume NDDOT Reserves All Obj	ents		
2	DOT# NUDDOT Reserves All Ob	ections	Points	4
3	Crash Prediction Value		0	
4	Was a recommendation/observation documented by the railroad companyor FRA Crash Predictor?	(Y/N)		
5	Was a recommendation/observation documented from a City, County, School District Official or NDDOT District?	(Y/N)		
6	Was a recommendation/observation documented from a member of the public?	(Y/N)		
7	How many School buses cross this crossing per day?	#of buses/day	0	
8	Proximity to Schools?	1 mile		
9	Harzardous Material Trucks or on a Hazardous Truck Route?	1/4 mile (Y/N)		+
				+
10	Does Amtrak use this Crossing?	(Y/N)	_	4
11	Is this crossing located within a mile from an Urban Development, or Densely Populated Area? (>750 population)	(Y/N)		
40	III I I I I I I I I I I I I I I I I I	45 MPH: 55 MPH:		4
12	Highway Speed (Enter an "X" in the Appropriate Box):	65 MPH:		+
		1 Quad		1
13	How many Quadrants' in the Crossing have Visual Obstructions?	2 Quad		
15	(Enter an "X" in the Appropriate Quadrant Box):	3 Quad		
		4 Quad		
14	Including both track and roadway, how many vertical curves exist near the crossing?	(0-4 max)	0	
15	Skew Angle at crossing (greater the angle from 90 degrees, the greater the	0-29		
	risk) (Enter an "X" in the Appropriate Box):	30-59		4
	Is the crossing in close proximity to an intersection? If so - what type?	Hi-Volume		4
16	Consider 750+ AADT on intersecting roadway as High Volume	Low-Volume		4
	Consider 55+ MPH on intersecting roadway as High Speed (Enter an "X" in the Appropriate Box for both Volume & Speed)	Hi-Speed		4
		Low-Speed		4
17	Identify and weight the discussed items of concern by the team:	Weight (1 to 30)	0	
		CROSSING RISK VALUE	0	

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#### **Appendix D - September 2020 Program Spreadsheets**

#### RPS-9999(435) 2020 SIGNAL PROGRAM

PCN 22652 - PE auth. 9/12/2019 - CE auth. 5/04/2020 - End Date 5/04/2023

ACTV. NO.	DOT NO.	MP	NO. TRACKS	RR ID	CITY/COUNTY	Roadway ID/ Functional Class	SEC	C. 130 PARTIC.	ACTUAL RR COST ESTIMATE	LPA - Split	NEW INSTALL/ UPGRADE	RR/NDDOT Contract Number
401	092939W	46.09	3	NPR	Mohall/Renville	ND 5/Princ Art R	\$	172,630.43	\$ 191,811.59	State 90/10	Upgrade	17191483
402	690399D	241.21	1	DMVW	Forman/Sargent	ND 32/Minor Art R	5	194,164.46	\$ 215,738.29	State 90/10	Upgrade	17191562
403	690531Y	313.42	1	DMVW	Kulm/Lamoure	ND 13/Princ Art R	\$	190,675.16	\$ 211,861.29	State 90/10	Upgrade	17191563
404	916572J	43.30	1	DMVW	Geneseo/Sargent	ND 11/Minor Art R	\$	192,208.42	\$ 213,564.91	State 90/10	Upgrade	17191564
405	103387T	126.68	1	RRVW	W. Gwinner/Sargent	ND 13/Minor Art R	\$	148,291.60	\$ 164,768.44	State 90/10	Upgrade	17191504
406	103485J	86.27	1	RRVW	LaMoure/LaMoure	ND 13/Princ Art R	5	136,389.60	\$ 151,544.00	State 90/10	Upgrade	17191507
407	093132R	66.80	1	BNSF	Karnak/Griggs	CR 19/Major Coll R	5	92,222.00	\$ 184,444.00	N/A - 50/50	Upgrade	17191567
408	093150N	73.83	2	BNSF	Hannaford/Griggs	CR 26/Major Coll R	\$	107,353.00	\$ 214,708.00	N/A - 50/50	Upgrade	17191568
409	093208U	8.076	2	BNSF	Bowbells/Burke	ND 8/Minor Art R	\$	118,168.00	\$ 236,336.00	N/A - 50/50	Upgrade	17191569
410	394029K	951.12	1	BNSF	Gascoyne/Bowman	Main St/ Local R	\$	91,168.00	\$ 182,336.00	N/A - 50/50	Upgrade	17191570
411	394058V	982.42	1	BNSF	NW Rhame/Bowman	CMC 0619/Major Coll R	5	92,209.50	\$ 184,419.00	N/A - 50/50	Upgrade	17191571
412	062513U	6.89	1	BNSF	N Grand Forks/Grand Forks	CR 11/Major Coll R	5	91,067.50	\$ 182,135.00	N/A - 50/50	Upgrade	17200108
413	062526V	19.29	1	BNSF	7m NW of Manvel/Grand Forks	CR 1/Major Coll R	\$	92,042.00	\$ 184,084.00	N/A - 50/50	Upgrade	17200107
414	081918X	144.48	1	BNSF	Grafton/Walsh	ND 17/Princ Art R	\$	124,273.00	\$ 248,546.00	N/A - 50/50	Upgrade	17200135
415	062506J	2.11	1	BNSF	Grand Forks/Grand Forks	27th Ave N/Minor Art U	5	97,129.00	\$ 194,258.00	N/A - 50/50	Upgrade	17200136
416	103030D	53.48	3	BNSF	Finley/Steele	Steele CR 18/Maj Coll R	5	102,952.50	\$ 205,905.00	N/A - 50/50	Upgrade	17200248
417	060692F	64.98	2	BNSF	East Fairview/Mckenzie	2nd St/Local R	5	104,326.50	\$ 208,653.00	N/A - 50/50	Upgrade	17200249
418	103055Y	67.25	1	BNSF	Aneta/Nelson	ND 32/Minor Art R	\$	91,301.00	\$ 182,602.00	N/A - 50/50	Upgrade	17200663
419	087684S	198.290	1	BNSF	Mandan/Morton	Welk Steel Crossing/Local U	5	100,622.00	\$ 201,244.00	N/A - 50/50	Upgrade	17200673
420	103042X	59.98	1	BNSF	Sharon/Griggs	ND 32/Minor Art R	5	117,261.00	\$ 234,522.00	N/A - 50/50	Upgrade	17200725
						DE		11 025 00	\$ 12.250.00			

PE \$ 11,025.00 \$ 12,250.00
CE \$ 13,950.00 \$ 15,500.00
ESTIMATED TOTALS \$ 2,481,429.67 \$ 4,021,228.52

APPROVED BY: Scott Zainhofsky

Federal Target \$ 2,350,000.00 (over)/under target \$ (131,429.87)

DATE: 07/01/2020 - signed electronically; see 07/01/2020 email @14:55

PREPARED BY: North Dakota Department of Transportation
P-AM Division, Planning/Rail Section

23 USC §409 Documents NDDOT Reserves All Objections

Hazard Elimination	\$	2,400,593.54	Federal	\$	2,350,000.00	Target
Signal Program	\$	2,481,429.67	Federal	\$	2,350,000.00	Target
Total	\$	4,882,023.21	Federal			
Total Fed. Amount	5	4,700,000.00	Federal	(	\$5.2m total)	
Total Obligation	\$	(182,023.21)	(over)under			

Richland County rejected the 10% local match - remove crossings from the pool of candidates for 2020 program - RRVW was notified 1/9/2020

062672B	17.24	1	RRVW	Pitcaim/Richland	Richland CR 6/Local R
062638U	3.17	1	RRVW	Wahpeton/Richland	Richland CR 10/Local R

#### HAZARD ELIMINATION FY 2020 FUNDS FOR 2020 CONSTRUCTION

DOT NO.	RR MP	RR ID.	# TRKS/ LENGTH	City/County	ROADWAY/FUNCT. CLASS	SE	C. 130 PARTIC.	RR C	OST ESTIMATE	Req. Autho Memo	PROJECT NUMBER	PCN
690571W	341.05	DMVW	4/48-FT	Wishek/McIntosh	Centennial St/Maj Coll R	5	182,196.78	s	202,440.87	10/18/2019	RSC-2615(003)	22675
082166E	23.84	DNRR	2/32-FT	Hensel/Pembina	CR 3/Maj Coll R	5	85,950.45	S	95,500.50	11/13/2019	RSC-3424(003)	22712
082208N	41.71	DNRR	1/65-FT	Leyden/Pembina	CR 1/Maj Coll R	s	79,876.35	5	88,751.50	11/13/2019	RSC-3410(004)	22713
696262E	364.64	NPR	3/40-FT	Ardoch/Walsh	US 81/Princ Art R	5	194,467.98	\$	216,075.53	3/4/2020	RSN-6-081(107)175	22833
092939W	46.09	NPR	3/40-FT	Mohall/Renville	ND 5/Princ Art R	5	191,630.03	\$	212,922.25	3/4/2020	RSN-4-005(040)125	22834
092843G	174.260	ELEV	1/56-FT	Beach/Golden Valley	N Central Ave/Maj Coll R	s	147,229.89	5	163,588.77	1/10/2020	RSC-1703(001)	22778
060461X	174.121		1/56-FT		2nd Ave NE/Local R							
945779U	0.50	ELEV	2/40-FT	Bowbells/Burke	CR 17/Maj Coll R	5	118,975.73	5	132,195.25	10/1/2019	RSC-0731(020)	22671
693350E 976078R	523.64	CPRS	1/54-FT	Van Hook/Mountrail	83rd Ave/Local R	5	85,510.13	s	95,011.25	4/30/2020	R50-C731(022)	22894
102435C	225.313	BNSF	1/88-FT	Surrey/Ward	SRTS s-walk surf./Maj Coll R	\$	52,991.10	5	58,879.00	10/18/2019	RSC-5142(002)	22677
081749M	44.525	BNSF	1/32-FT	Gardner/Cass	CR 26/Maj Coll R	5	27,200.00	5	84,852.00	10/18/2019	RSC-0910(003)	22676
093201W	4.969	BNSF	1/40-FT	Bowbells/Burke	CR 17/Maj Coll R	5	54,400.00	5	97,879.00	2/11/2020	RSC-0731(021)	22809
093458G	124.587	BNSF	4/60-FT	New Rockford/Eddy	CR 9/Maj Coll	\$	136,000.00	\$	244,185.00	2/11/2020	RSC-1412(001)	22810
102469W	20.986	BNSF	2/104-FT	Willow City/Bottineau	CR 28A/Maj Coll R	\$	176,800.00	\$	262,184.00	2/11/2020	RSC-0528(006)	22811
081914V	144.975	BNSF	2/64-FT	Grafton/Walsh	6th Street/Local R	5	108,800.00	5	180,756.00	2/11/2020	RSO-C650(003)	22812
086599Y	44.392	BNSF	2/32-FT	Petersburg/Nelson	CR 5/Maj Coll U	s	54,400.00	5	121,059.00	2/11/2020	RSC-3225(005)	22813
093035G	41.788	BNSF	2/48-FT	Page/Cass	ND 38/Maj Coll R	5	81,600.00	5	161,451.00	2/11/2020	RSS-8-038(005)018	22814
093453X	124.112	BNSF	1/32-FT	New Rockford/Eddy	8th Street S/Maj Coll R	\$	27,200.00	\$	67,205.00	3/25/2020	RSC-1407(002)	22854
093505M	131.265	BNSF	1/32-FT	Munster/Eddy	CR 12/Maj Coll R	\$	27,200.00	5	65,509.00	3/25/2020	RSC-1401(003)	22855
081388K	33.838	BNSF	1/32-FT	Harwood/Cass	CR 32/Maj Coll R	5	27,200.00	5	67,388.00	3/25/2020	RSC-0922(004)	22856
0866795	84.582	BNSF	1/48-FT	Devils Lake/Ramsey	12th Ave S/Minor Art U	5	40,800.00	5	87,649.00	3/26/2020	RSO-C336(001)	22857
062535U	24.781	BNSF	1/64-FT	Ardoch/Walsh	US 81/Princ Art R	\$	54,400.00	5	97,879.00	3/26/2020	RSN-6-081(108)175	22859
071715L	40.980	BNSF	1/96-FT	Coteau/Burke	ND S/Minor Art R	\$		\$		5/18/2020	RSN-7-008(036)190	22918
071656R	1.05	BNSF	Signal Reloc	Berthold/Ward	US 2/Princ. Art R	\$	114,082.20	\$	126,758.00	9/4/2020	RSN-7-002(177 )121	23018
071929H	2.931	BNSF	Closure	Harrison Township/Minot	33rd St SW/Local R	\$	7,500.00	\$	49,358.75	8/21/2020	RSO-0051(007)	23006
087866D	47.71	LELAND	1/80-FT	Leland Olds/Mercer	ND 200A/Princ Art R	S	107,537.49	\$	119,486.10	6/3/2020	RSN-1-200(080)908	22930
082157F	17.79	DNRR	3 trks 0   0	Crystal/Pembina	ND 66/Maj. Coll R	s	75,807.00	5	84,230.00	7/13/2020	RSN-6-066(029)112	22977
062563X	39.37	DNRR	3 trks 0   0	Grafton/Walsh	E. 8th St./Local R	s	40,509.90	5	45,011.00	7/21/2020	RSO-C650(004)	22994
System	et.al.	Program	Study	Statewide	2% Rail Study	\$	45,000.00	\$	50,000.00	10/1/2019	RRT-CY-20(032)	22649
					ESTIMATED TOTALS	\$	2,345,265.02	\$ 3	278,204,77			

\$850/LF BNSF surfaces

Federal Target \$ 2,350,000.00

-over/under target \$ 4,734.98

WITH LPA PROJECTS

The advance warning beacon project was rejected by the DMVW Railroad - DOT 087739 Moffit, ND

Included CPRS new surface relocation per Township roadway improvement project Van Hook. Project includes new signals from the 2019 Program.

5/18/2020 - Included BNSF 071751L Coteau surface - moved Ayr rehab to 2021

7/1/2020 - include DNRR signal upgrade.

9/30/2020 - Coteau was withdrawn upon request of BNSF

23 USC §409 Documents NDDOT Reserves All Objections

APPROVED BY:

TITLE: PIAM DIVISION ENGINEER

DATE:

PREPARED BY: North Dakota Department of Transportation
P-AM Division, Planning/Rail Section

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## Appendix E - Annually Refined Ranking Spreadsheets by Program

#### MASTER SIGNAL REFINED RANKING - December 2021

285.777   25   261 093329   860F   25 Wilhe Earth/Mounted   605.51 NW   2500,000.00	NDDOT VALUE	FRA RANK	Prev. FRA Rank	DOT NO.	RR ID.	CITY/COUNTY	STREET NAME	ESTIMATED PROJECT COST
200.0227   2938   429   100487K   8974W   LAMOURYLANDURE CMC 2355/314 Am NE	285.777	25		9999899	BNSF		66th St NW	\$500,000.00
180,178   2789   2009   1009008   8974 W   14060urg/Nubb   CR 7   250,000.00   135,159   60   1097   0294850   8967   17040burg/Nubb   CR 7   250,000.00   135,159   1266   1259   0292850   8967   17040burg/Nubb   CR 7   250,000.00   135,158   1266   1259   0292850   8967   17040burg/Nubb   CR 7   250,000.00   135,158   1266   1259   0292850   1267						Grand Forks/Grand Forks		
196.578   291.5   0.000.000   196.57   197.500.000.000   199.538   1344   1359   0.000.000   199.538   1344   1359   0.000.200   199.538   1346   1359   0.000.200   199.538   1346   1359   0.000.200   199.538   1346   1359   0.000.200   135.575		2538						
194.539		2789						
138.958   1346   1259   052730U   8970WW   5. of Durdin   42nd 58   5170,000.00   136.958   136.9684A   174   781   0527274   1971   MUNICIPICAVALUR   ND 20   5150,000.00   131.727   181   545   060529U   1070   2000					-			
136,245								
136,644   774   781   667,778   690,5390								
131,773								
130.573   811   593   698027U   5070   5000000   500.664   325   326   307   507135R   8167   70   70   70   70   70   70   70					DADAW			
130.666   325   325   327   3915780N   BRIST   FOWER CRy(Class   13Mh Are SE   \$250,000.00   130.001   1268   1281   1004555   87049W   Englewish[Renorm CR 18   \$137,933.88   \$137,933.88   128.14   130   1361   1605452F   60459W   Englewish[Renorm CR 18   \$137,933.88   \$137,933.88   128.14   130   1361   1605452F   60459W   Englewish[Renorm CR 18   \$137,933.88   127.732   1357   1362   0625348   8165   Menvel/Orend Forks   16Th ST NE   \$300,000.00   124.233   430   727   609423M   50400   100469W					NPR	Southam/Ramsey		
130,050   1268   1281   1094555   878/WW   Enginevial/Renson		308	307	945780N	DMINW			
130,010   1268   1281   1054555   50476W   Englewid/Rarson   CR 14   5150,000.00   127,732   1557   1362   605458   8865   Married/Grand Forks   16Th 51 NE   5300,000.00   127,732   1557   1362   605548   8865   Married/Grand Forks   16Th 51 NE   5300,000.00   124,233   450   727   2059   205423M   506769   10766974				071152R	BNSF			
127.732 1507 1362 0623148 9895F Marmed/Grand Forks 1571 ST NE 5300,000.00 126,678 48 49 49 06058PY 9895F 3 Crary/Ramsey 890h Aws NE 5300,000.00 120,656 327 325 07394E 886F Destact/Ward 1128h 51 NW 5500,000.00 120,656 327 325 07394E 886F Destact/Ward 1128h 51 NW 5500,000.00 130,656 327 325 073378 886F Destact/Ward 1128h 51 NW 5500,000.00 118,865 452 451 093378 886F Destact/Ward 128h 51 NW 5500,000.00 118,865 452 451 093378 886F Pertact/Ward 128h 51 NW 5500,000.00 118,865 452 451 093378 886F Pertact/Ward 128h 51 NW 5500,000.00 118,865 452 451 093378 886F Pertact/Ward 128h 51 NW 5500,000.00 118,865 450 450 450 450 450 450 450 450 450 45		1268	1281		RRV&W	Englevale/Ransom	CR 58	
134_213	128,414	510	1161	693422F	DMWW		CR 14	
120,456   327   325   0719345   896F   Des Lex/Ward   1289 9.000   3500,000.00   118,665   452   451   0323728   896F   Epplay/Williams   1269 New W   5300,000.00   118,466   452   451   03900647   896F   Epplay/Williams   1269 New W   5300,000.00   114,235   429   426   0390066   CPRE   Portal/Burks   CR 2   5300,000.00   110,325   2560   2500   0393296   896F   EVIVINE Arth/Mountral   669 Nz. NW   3300,000.00   110,322   2562   2596   699077V   CMAYW   AMBROSE/DVIDE   ND 42   3150,000.00   110,322   2562   2596   699077V   CMAYW   AMBROSE/DVIDE   ND 42   3150,000.00   110,322   2563   2564   0000000   CMAW   CMAYW   CMAYWAR   CM 2   110,267   2518   2677   0004066   CMAW   CMAYWAR   CMAYWAR   CM 2   110,267   2518   2677   0004066   CMAW   CMAYWAR   CM	127.732	1557	1582	062514B	BNSF	Manyel/Grand Forks	16TH ST NE	\$300,000.00
13.6.865   327   325   07339M; BREF   Des Lacy/Ward   1280 S. NW   \$300,000.00	126,678	48	49	086658Y	BNSF	S Crary/Ramsey	89th Ave NE	\$300,000.00
118,685   450   451   69370M   BREF   Eppling/Williams   126th Ave NW   \$300,000.00		430	727	693423M	DMWW	Underwood/McLean	Lincoln Ave	
114,235   429   426   6993MC   CPE	120,656	327	325	0719348	BNSF	Des Lacs/Ward		\$500,000.00
110.510   33   261   093394C   CPE	118.865	452	451	093378N	BNSF	Epping/Williams	126th Ave NW	\$300,000.00
110.510   25   261   0933295   BREF   E White Earth/Mountrell   66th 31. NW   \$300,000.00	118.648	1405	1416	394064Y	BNSF	Marmarth/Slope	Main St.	\$400,000.00
13.0.322   2.562   2.596   6.99077V   Service   Servic	114.235							\$300,000.00
106.267   261.8   2677   067408K   CMAW   Capuag/Sargent   CR 12   5175,000.00   106.799   779   785   600326C   CMAW   KULM/LAMOURE   ND 56   5150,000.00   105.799   779   785   600326C   CMAW   KULM/LAMOURE   ND 56   5150,000.00   105.387   2638   2646   067400F   CMAW   CAPUAR   CMAW		25			BNSF			
100.894   39		2562			DMWW			
105.87   1270   1283   085580F   1805F   180		2618	-		DMW			
105.8E7   2270   1283   086589T   BISSE   Niegera/Grand Forks   CR 9   \$400,000.00		39			CPRS			
105.187   2538   2646   067400F   0047W   Genesico/Sargent   CR 14   5175,000.00					DMWW			
100.187   2595   2679   102637A   BIRSE   CHURCHS FERRY/RAMSEY   US 281   \$250,000.00					BNSF			
100.5158   2946   3346   071068M   8HSF   N Erle/Cass   CR 5   \$300,000.00					DMWW			
103.650   1404   1413   693179T   CP66   Kongsberg/McHenry   CMC-2513   \$300,000.00								
100.055								
101.679						Kongsberg/McHenry		
100.844   938   998   093201W   BMSF   S Bowbells/Burke   CR 17   \$300,000.00		2402						
100.044   918   998   093201W   BRISE   S Bowbells/Burian   CR 17   \$300,000.00		237						
100,190   2584   2660   DE1B42U   BRSF   JOLIETTE/PEMBINA   ND 5   \$290,000,000		0.07						
100.187   2640   2645   0674167   0674W   Rutland/Sargent   CR 10   3165,000.00								
100.158			-		DADAW		CR 10	
96.187 290 5316 512 093135X BRSF E. Hannaford/Griggs 9th ST SE \$400,000.00 95.185 290 292 07375A DMVW LIGHTE/WARD ND 89 \$150,000.00 95.452 1069 935 082194H DMVW NE Havens/Sargent CR 5 325,000.00 95.452 1069 935 082194H DMVW NE Havens/Sargent CR 5 3175,000.00 95.158 33157 3162 067424U DMVW NE Havens/Sargent CR 5 3175,000.00 94.373 1191 1005 000426 BRSF W South Heart/Stark 122nd Ave SW \$400,000.00 99.789 1390 093137A BRSF W South Heart/Stark 122nd Ave SW \$400,000.00 99.789 1390 993137A BRSF E. Hannaford/Griggs 139 309 093137A BRSF E. Hannaford/Griggs 139 309 093137A BRSF E. Hannaford/Griggs 139 Ave SW \$400,000.00 BRS.279 379 309 093137A BRSF E. Hannaford/Griggs 139 Ave SW \$400,000.00 BRS.279 200 0000 BRSS.279 200 0000 BRS.279 200 0000 BRSF Surrey/Ward 125TH ST.NE \$400,000.00 75.287 200 0000 BRSF Surrey/Ward 125TH ST.NE \$400,000.00 BRSF Surrey/Ward 125TH ST.NE \$400,000.00 95.295 950 953650. BRSF Warderlye, McHenry 7th Ave North \$500,000.00 95.295 950 953650. BRSF Warderlye, McHenry 7th Ave North \$500,000.00 95.295 950 953650. BRSF Warderlye, McHenry 7th Ave North \$500,000.00 950 950 950		40.0			DMW	Rutland/Sargent		
95.187 290 292 077775A CM/VW LIGNITE/WARD ND 89 \$150,000.00 95.158 3157 3162 067424U 0M/VW NE Havana/Sargant CR 5 \$175,000.00 95.158 3157 3162 067424U 0M/VW NE Havana/Sargant CR 5 \$175,000.00 94.373 1791 1305 0604261 BMSF W South Heart/Stark 122nd Ave SW \$400,000.00 93.780 1390 1405 993137A BMSF W South Heart/Stark 122nd Ave SW \$250,000.00 88.792 379 309 093137A BMSF E Hannaford/Griggs 113th Ave SE \$400,000.00 88.792 489 08847V BMSF E Hannaford/Griggs 113th Ave SE \$400,000.00 85.287 2621 2681 698012Y NPR WHITMAN/NELSON ND 35 \$150,000.00 85.287 1338 1142 0932781 BMSF Towner/Michenry 9th Ave NE \$300,000.00 85.287 1391 1407 6933285 CPR 6 W Plasa SMLS/Mountrell 79th Ave NW \$220,000.00 83.789 1391 1407 6933285 CPR 6 W Parshal/Mountrell 79th Ave NW \$220,000.00 83.789 1391 1407 6933285 CPR 6 W W Parshal/Mountrell 79th Ave NW \$220,000.00 83.789 1391 1407 6933285 CPR 6 W Parshal/Mountrell 79th Ave NW \$220,000.00 83.799 558 558 071095E BMSF Magleton/Cass 105th Ave SE \$300,000.00 83.799 559 559 559 09350L BMSF W Casselton/Cass 105th Ave SE \$300,000.00 81.396 659 959 608650 BMSF Surrey/Ward 125Th ST E \$400,000.00 81.396 659 96 608550 BMSF NW Casselton/Cass 105th Ave SE \$400,000.00 87.289 2634 523 102941D BMSF NW Casselton/Cass 105th Ave SE \$400,000.00 87.5287 2634 654 698637W NPR Kramer/BetSineau CR 20 \$150,000.00 87.5287 2634 654 698637W NPR Kramer/BetSineau CR 20 \$150,000.00 87.5287 2634 654 698637W NPR Kramer/BetSineau CR 20 \$150,000.00 87.5287 2634 654 698637W NPR Kramer/BetSineau CR 20 \$150,000.00 87.5287 2634 654 698637W NPR Kramer/BetSineau CR 20 \$150,000.00 87.5287 2634 654 698637W NPR Kramer/BetSineau CR 20 \$150,000.00 87.5287 2634 863 697608 BMSF PAKIN/Nelson ND 1 \$250,000.00 87.5287 2634 863 697608 BMSF PAKIN/Nelson ND 1 \$250,000.00 87.5287 2634 863 697608 BMSF PAKIN/Nelson ND 1 \$250,000.00 87.5287 2634 863 697608 BMSF PAKIN/Nelson ND 1 \$250,000.00 87.5287 2634 863 697608 BMSF PAKIN/Nelson ND 1 \$250,000.00 87.5287 2634 863 69960 BMSF PAKIN/Nelson ND 1 \$250,000.00 87.5287 7637 794 0604307 BMSF PAKIN/Nelson PAKIN/	98,366	516	512	093133X	BNSF		9th ST SE	\$400,000.00
96.158 3157 3162 067424U 0M/W NE Havana/Sargent CR 5 \$175,000.00 96.789 1290 1200 1405 693317E CPRS W Parshal/Mountrall 127nd Ave NW \$400,000.00 93.789 1300 1405 693317E CPRS W Parshal/Mountrall 72nd Ave NW \$400,000.00 88.547 493 489 08647V 895					DMWW			
96.158 3157 3162 067424U 0M/W NE Havana/Sargent CR 5 \$175,000.00 96.789 1290 1200 1405 693317E CPRS W Parshal/Mountrall 127nd Ave NW \$400,000.00 93.789 1300 1405 693317E CPRS W Parshal/Mountrall 72nd Ave NW \$400,000.00 88.547 493 489 08647V 895	95.452	1069	935	082194H	DMRR	Backoo/Pembina	CR 12	\$25,000.00
99.378   1391   1305   0004261   BMSF   W South Heart/Stark   122nd Ave SW   \$400,000.00   89.792   379   309   025137A   BMSF   E. Hannaford/Griggs   113th Ave SE   \$400,000.00   88.547   493   489   086847V   BMSF   N. of Reynolds/Grand Torks   CR 22   \$400,000.00   85.287   2621   2681   690012Y   BMSF   N. of Reynolds/Grand Torks   CR 22   \$400,000.00   85.287   2621   2681   690012Y   BMSF   N. of Reynolds/Grand Torks   CR 22   \$400,000.00   85.287   2621   2681   690012Y   BMSF   Towner/Michenry   9th Ave NE   \$300,000.00   85.283   1192   1366   693291E   CP6   W Reas Switch/Mountrell   624 Ave NW   \$220,000.00   85.283   1391   1407   6933263   CP6   Gm W Parshal/Mountrell   624 Ave NW   \$220,000.00   85.283   1391   1407   6933263   CP6   Gm W Parshal/Mountrell   F9th Ave SE   \$300,000.00   85.283   2617   1549   682146T   DMRR   Hoogle/Walsh   CR 1   \$150,000.00   86.252   2617   1549   682146T   DMRR   Hoogle/Walsh   CR 1   \$150,000.00   87.293   524   523   102941D   BMSF   Surrey/Ward   125TH 3T. NE   \$400,000.00   77.296   596   595   693650L   BMSF   Surrey/Ward   125TH 3T. NE   \$400,000.00   77.287   2634   654   698657W   MPR   Kramer/Bottlineau   CR 20   \$150,000.00   86.892   1379   1391   3940635   BMSF   Pakity/Nelson   ND 1   \$225,000.00   86.993   964   698637W   NPR   Kramer/Bottlineau   CR 20   \$150,000.00   86.994   696   696540L   BMSF   Marmarthy/Slope   76th 5t. SW   \$400,000.00   86.995   966   69720K   BMSF   Marmarthy/Slope   76th 5t. SW   \$400,000.00   86.997   896   997   9974   697545W   BMSF   Marmarthy/Slope   76th 5t. SW   \$400,000.00   86.997   896   997   9976					DMWW			
89.792 379 309 025137A BRSF E. Hannaford/Origgs 113th Ave SE \$400,000.00 88.287 429 489 086847V 8MSF N. of Reynolds/Grand Forks CR 22 \$400,000.00 85.287 2621 2681 690012Y NPR WHITMAN/NEISON ND 35 \$150,000.00 85.287 2621 2681 269012Y NPR WHITMAN/NEISON ND 35 \$150,000.00 85.287 2621 1355 1366 693291E CP6E W Reas Switch/Mountrell 62nd Ave NW \$220,000.00 85.789 1391 1407 6933285 CP6E 6m W Parshalf/Mountrell 79th Ave NW \$230,000.00 85.789 1391 1407 6933285 CP6E 6m W Parshalf/Mountrell 79th Ave NW \$230,000.00 85.029 536 558 071095E 8NSF Magieton/Cass 16th Ave SE \$300,000.00 82.252 1617 1549 062146T DNRR Hoopis/Walsh CR1 \$150,000.00 82.252 1617 1549 062146T DNRR Hoopis/Walsh CR1 \$150,000.00 77.293 524 523 102941D BMSF Surrey/Ward 125TH 371.NE \$400,000.00 77.293 524 523 102941D BMSF Surrey/Ward 125TH 371.NE \$400,000.00 77.295 596 595 093503. BMSF Surrey/Ward 125TH 371.NE \$400,000.00 77.296 596 996 066550U BMSF Verendrys, McHenry 7th Ave North \$300,000.00 75.287 2634 654 698657W NPR Kramer/Rotlineau CR 20 \$150,000.00 P.35.287 2634 654 698637W NPR Kramer/Rotlineau CR 20 \$150,000.00 P.35.287 2634 654 698637W NPR Kramer/Rotlineau CR 20 \$150,000.00 B6.812 1379 1301 3940635 BMSF MININICH/CAVALUER ND 66 3150,000.00 66.812 1379 1301 3940635 BMSF MININICH/CAVALUER ND 66 3150,000.00 66.817 854 863 087720K BMSF W RATER-P/Rotlineau CR 20 \$150,000.00 66.817 854 863 087720K BMSF W South Heart/Stark 2314 Ave SW \$300,000.00 55.752 355 366 367 087545W BMSF W South Heart/Stark 2314 Ave SW \$300,000.00 55.752 355 352 2693 352 2693 09305 355 355 09305M BMSF W South Heart/Stark 2314 Ave SW \$300,000.00 55.752 355 352 2693 352 2693 09305M BMSF W South Heart/Stark 2314 Ave SW \$300,000.00 55.752 353 352 269305M BMSF W South Heart/Stark 2314 Ave SW \$300,000.00 45.5429 2637 2653 09305M BMSF W South Heart/Stark 2314 Ave SW \$300,000.00 55.752 353 352 269305M BMSF W South Heart/Stark 2314 Ave SW \$300,000.00 55.752 353 352 269305M BMSF W South Heart/Stark 2314 Ave SW \$300,000.00 45.5429 2637 2653 09305M BMSF W South Heart/Stark 2314 Ave SW \$300,000.0	94.373	1291	1305	060426J	BNSF	W South Heart/Stark	122nd Ave SW	\$400,000.00
85.947 493 489 086847V BMSF N. of Reynolds/Grand Forks CR 22 \$400,000.00 85.267 2621 2681 698012Y NPR WHITMAN/NELSON ND 35 \$150,000.00 85.265 1138 1142 095278 BMSF Towner/Michenry 9th Ave NE \$300,000.00 85.079 1591 1407 993282 CP6 W Pileza Switch/Mountrell 62nd Ave NW \$220,000.00 83.789 1591 1407 9933285 CP6 M Pileza Switch/Mountrell 62nd Ave NW \$220,000.00 83.029 558 558 0710952 BMSF Magileton/Cass 160h Ave SE \$300,000.00 83.199 1591 1599 082146T 0MSR Hoople/Walsh CR1 \$150,000.00 83.199 859 856 093098 BMSF Sarrey/Ward 125TH ST. NE \$400,000.00 83.199 859 856 093098 BMSF Sarrey/Ward 125TH ST. NE \$400,000.00 77.296 596 595 093650L BMSF Sarrey/Ward 125TH ST. NE \$400,000.00 77.296 596 595 093650L BMSF Verendrye, McHenry 7th Ave North \$300,000.00 77.296 596 595 093650L BMSF Verendrye, McHenry 7th Ave North \$300,000.00 77.297 2632 2667 103089T BMSF Pakin/Nelson ND \$2520,000.00 77.296 596 597 M SPR MUNICH/CAVALUER DMS ST. ND 66 \$150,000.00 66.817 854 861 08720K BMSF M MFR Kramer/Bottlineau CR 20 \$150,000.00 66.817 854 861 08720K BMSF M MARINCH/CAVALUER ND 66 \$150,000.00 66.915 896 947 087388 BMSF Marmarth/Siope 76th St. SW \$400,000.00 66.917 854 861 087720K BMSF W Richardton/Michenry 47th St N \$300,000.00 65.017 854 861 087720K BMSF W Richardton/Stark 91st Ave SW \$300,000.00 65.017 854 861 087720K BMSF W Richardton/Stark 91st Ave SW \$300,000.00 65.017 854 861 087720K BMSF W Richardton/Stark 91st Ave SW \$300,000.00 65.017 857 852 862 087705H BMSF W Richardton/Stark 91st Ave SW \$300,000.00 65.017 859 862 865 092062R BMSF W Richardton/Stark 91st Ave SW \$300,000.00 65.017 859 865 09200 900 900 900 900 900 900 900 900 9	93.789			6933176	CPRS	W Parshal/Mountrall		\$250,000.00
85.267 2621 2661 6980127 NPR WHITMAN/NELSON ND 35 \$150,000.00 85.205 1138 1142 0992788 BNSF Townst/McHenry 9th Ave NE \$300,000.00 85.026 1138 1142 0992788 BNSF Townst/McHenry 9th Ave NW \$220,000.00 85.029 1591 1407 69933285 CPR W Plaza Switch/Mountriell 79th Ave NW \$220,000.00 85.029 558 558 0710952 BNSF Majelton/Cass 105h Ave SE \$300,000.00 85.029 558 558 0710952 BNSF Majelton/Cass 105h Ave SE \$300,000.00 85.029 558 558 0710952 BNSF NW Casselton/Cass 105th Ave SE \$300,000.00 85.225 1617 1549 0621467 DNRR Hoople/Walsh CR 1 \$150,000.00 76.293 554 523 102941D BNSF NW Casselton/Cass 150th Ave SE \$400,000.00 77.796 576 595 0995650. BNSF NW Casselton/Cass 150th Ave SE \$400,000.00 77.796 576 595 0995650. BNSF NW Casselton/Cass 150th Ave SE \$400,000.00 75.287 2627 2627 1050697 BNSF Pikkin/Nelson ND 1 \$250,000.00 75.287 2632 654 6986 098657W NPR Kramer/Bottlineau CR 20 \$150,000.00 77.040 933 944 0872888 NPR MUNICH/CAVALUER ND 66 \$150,000.00 66.497 654 863 087726K BNSF Golf Course/Noder 22nd Ave SE \$400,000.00 66.497 654 863 087726K BNSF Kartsurbe/Noder 22nd Ave SE \$400,000.00 55.797 787 794 060450Y BNSF W Scharton/Stark 91st Ave SW \$300,000.00 56.797 787 794 060450Y BNSF W Scharton/Stark 91st Ave SW \$300,000.00 56.797 787 794 060450Y BNSF W Scharton/Kidder 22nd Ave SE \$400,000.00 56.797 787 794 060450Y BNSF W Scharton/Kidder 35rd Ave SE \$400,000.00 56.797 787 794 060450Y BNSF W Scharton/Kidder 35rd Ave SE \$300,000.00 56.797 787 794 060450Y BNSF W Scharton/Kidder 35rd Ave SE \$300,000.00 56.797 787 794 060450Y BNSF W Scharton/Kidder 35rd Ave SE \$300,000.00 56.797 787 794 060450Y BNSF W Scharton/Kidder 35rd Ave SE \$300,000.00 56.797 787 794 060450Y BNSF W Scharton/Kidder 35rd Ave SE \$300,000.00 56.797 787 794 060450Y BNSF W Scharton/Kidder 35rd Ave SE \$300,000.00 56.797 787 794 060450Y BNSF W Devision/Kidder 35rd Ave SE \$300,000.00 56.797 787 794 060450Y BNSF W Devision/Kidder 35rd Ave SE \$300,000.00 56.797 787 794 060450Y BNSF W Devision/Kidder 35rd Ave SE \$300,000.00	89.792	379	309	093137A	BNSF	E. Hannaford/Griggs	113th Ave SE	\$400,000.00
BS.205	88.547	493	489	086847V	BNSF		CR 22	\$400,000.00
84.042 1355 1366 695291E CPRS W Plaza Switch/Mountrall 62nd Ave NW 5220,000.00 83.029 1391 1407 6933285 CPRS 6m W Parahal/Mountrall 79th Ave NW 5230,000.00 83.029 158 558 071095E 8MSF Majelton/Cass 10th Ave SE 5300,000.00 82.252 1617 1549 082146T DMRR Hoople/Walsh CR 1 5150,000.00 83.029 866 093098 8MSF Surrey/Ward 125TH ST. NE 5400,000.00 73.293 524 523 1029410 8MSF NW Cassellon/Cass 150th Ave SE 5400,000.00 77.796 596 595 093650L 8MSF NW Cassellon/Cass 150th Ave SE 5400,000.00 77.796 396 595 093650L 8MSF NW Cassellon/Cass 150th Ave SE 5400,000.00 77.287 2627 2627 103089T 8MSF NW Cassellon/Cass 150th Ave SE 5400,000.00 77.287 2627 2637 103089T 8MSF NW Farendys, McHenry 7th Ave North 5300,000.00 77.287 2627 2637 103089T 8MSF Pakin/Nelson ND 1 5230,000.00 77.287 2624 654 698637W NPR Kramer/Bottineau CR 20 5150,000.00 77.00 933 944 0872888 NPR MUNICH/CAVALUER ND 66 5150,000.00 66.887 1391 3940535 8MSF MW MUNICH/CAVALUER ND 66 5150,000.00 66.417 854 863 087720K 8MSF Golf Course/Kidder 22nd Ave SE 5400,000.00 66.417 854 863 087720K 8MSF Karlsruhe/McHenry 47th SN 5300,000.00 66.951 962 641 0717888 6MVW COUMBUS/BUIKZ ND 40 5150,000.00 55.7872 1551 1570 6932817 PMSF W Shorthon/Stark 91st Ave SW 5300,000.00 55.7872 1551 1570 6932817 PMSF W Shorthon/Stark 91st Ave SW 5300,000.00 55.7872 1551 1570 6932817 PMSF W Shorthon/Stark 91st Ave SW 5300,000.00 55.7872 1551 1570 6932817 PMSF W Shorthon/Stark 91st Ave SW 5300,000.00 55.7872 1551 1570 6932817 PMSF W Shorthon/Stark 91st Ave SW 5300,000.00 55.7872 1551 1570 6932817 PMSF W Shorthon/Stark 91st Ave SW 5300,000.00 55.7872 1551 1170 6932817 PMSF W Shorthon/Stark 91st Ave SW 5300,000.00 55.7872 1551 1170 6932817 PMSF W Shorthon/Stark 91st Ave SW 5300,000.00 55.7872 1551 1170 6932817 PMSF W Shorthon/Stark 91st Ave SW 5300,000.00 55.7872 1551 1170 6932817 PMSF W Shorthon/Stark 91st Ave SW 5300,000.00 55.7872 1551 1170 6932817 PMSF W Shorthon/Stark 91st Ave SW 5300,000.00 55.7872 1551 1570 6932817 PMSF PMSF PMSF PMSF PMSF Shorthon/Stark 91st Ave SW 5300,000.00 55.7872 1551 1170		2621						
83.789 1391 3407 6933285 CPRS 6m W Parshell/Mountrall 79th Ave NW \$230,000.00 83.029 358 558 071095E BRSF Mapleton/Cass 16th Ave SE 3300,000.00 82.252 1617 1549 082146T NRR Hoople/Walsh CR1 3150,000.00 83.399 859 866 093098 BRSF Surrey/Ward 125TR3T.NE 5400,000.00 772.293 534 523 103941D BRSF W Casselhor/Cass 150th Ave SE 5400,000.00 772.796 596 595 093650L BRSF Verendrys, McHenry 7th Ave North \$300,000.00 773.287 986 996 086556U BRSF Verendrys, McHenry 7th Ave North \$300,000.00 75.287 2632 2667 1050897 BRSF Palkin/Nelson ND 3 5250,000.00 75.287 2634 654 698637W NPR Kramer/Bottlineau CR 20 \$150,000.00 77.040 933 944 087288B NPR MUNICH/CAVALUER ND 66 \$150,000.00 66.892 13779 1391 3940635 BRSF Marmarth/Slope 76th St. SW \$400,000.00 66.497 854 863 087720K BRSF Marmarth/Slope 76th St. SW \$400,000.00 66.497 854 861 087720K BRSF Marmarth/Slope 76th St. SW \$400,000.00 65.991 900 901 093642U BRSF Karlaruhs/McHenry 47th St N \$300,000.00 65.991 952 641 07788B CMVW COUMBUS/BURKE ND 40 \$150,000.00 65.991 952 956 947 087548W BRSF W Busher W Bishardton/Stark 91st Ave SW \$300,000.00 55.792 787 794 0604307 BRSF W South Heart/Stark 91st Ave SW \$300,000.00 55.427 853 862 087705H BRSF W South Heart/Stark 91st Ave SW \$300,000.00 55.427 853 862 087705H BRSF W Devision/Kidder 35th Ave SE \$300,000.00 55.459 9263 2663 09305M BRSF W South Heart/Stark 91st Ave SW \$300,000.00 55.459 9263 2663 09305M BRSF W Devision/Kidder 35th Ave SE \$300,000.00 45.991 2663 2663 09305M BRSF W South Heart/Stark 91st Ave SW \$300,000.00 45.991 2663 2663 09305M BRSF W Devision/Kidder 35th Ave SE \$300,000.00 45.991 2663 2663 09305M BRSF F Devision/Kidder 35th Ave SE \$300,000.00 45.991 2663 2663 09305M BRSF F Devision/Kidder 35th Ave SE \$300,000.00 45.991 2663 2663 09305M BRSF F Devision/Kidder 35th Ave SE \$300,000.00 45.991 2663 2663 09305M BRSF F Devision/Kidder 35th Ave SE \$300,000.00 45.992 2663 2663 09305M BRSF F Devision/Kidder 35th Ave SE \$300,000.00		1138			BNSF			
83.029 558 558 071095E BRSF Magleton/Cass 16th Ave SE 5300,000.00 82.252 1017 1549 082146T DNRR Hoople/Walsh CR 1 \$150,000.00 83.398 859 866 0906098 BRSF Surrey/Ward 1227H ST. NE 5400,000.00 78.293 524 523 1029410 BRSF NW Casselbon/Cass 150th Ave SE 5400,000.00 77.796 596 595 093650. BRSF Verendrys, McHenry 7th Ave North 5300,000.00 75.868 986 996 086858U BRSF St. of Reynolds/Traill 16th St NE 5400,000.00 75.867 2637 2667 1030697 BRSF Pakin/Nelson ND 1 \$2290,000.00 75.287 2634 654 698637W NPR Kramer/Bottineau CR 20 \$150,000.00 71.040 933 944 087388B NPR MUNICH/CAVALUR ND 66 \$150,000.00 68.892 1379 1391 3904083 BRSF Marmarth/Siope 76th St. SW 5400,000.00 66.204 900 901 093642U BRSF Golf Course/Vidder 22nd Ave SE 5400,000.00 65.951 962 641 071788B OMYW COLUMBUS/BUIKE ND 40 \$150,000.00 65.951 962 641 071788B OMYW COLUMBUS/BUIKE ND 40 \$150,000.00 55.067 787 794 0604307 BRSF W Richardton/Stark 91st Ave SW \$300,000.00 55.077 787 794 0604307 BRSF W Richardton/Stark 91st Ave SW \$200,000.00 55.077 787 794 0604307 BRSF W Richardton/Stark 91st Ave SW \$200,000.00 55.077 287 794 0604307 BRSF W Downson/Kidder 35th Ave SW \$200,000.00 55.077 287 794 0604307 BRSF W Downson/Kidder 35th Ave SW \$200,000.00 55.077 287 794 0604307 BRSF W Downson/Kidder 35th Ave SW \$200,000.00 55.077 287 794 0604307 BRSF W Downson/Kidder 35th Ave SW \$200,000.00 55.078 2889 2785 103007 BRSF W Downson/Kidder 35th Ave SE \$300,000.00 55.0178 2889 2785 103007 BRSF W Downson/Kidder 35th Ave SE \$300,000.00 55.0178 2889 2785 103007 BRSF P Dewson/Kidder 35th Ave SE \$300,000.00 55.0178 2889 2785 103007 BRSF P Dewson/Kidder 35th Ave SE \$300,000.00		1355			CPRS			
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TR.223   524   523   102941D   BMSF   NW Casallon/Casa   150th Ave SE   \$400,000.00								
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75.86E   986   996   086856U   BMSF   S. of Reynolds/Trell   16th St NE   \$400,000.00     75.28F   2637   2667   1030897   BMSF   Pekin/Nelson   ND 2   \$250,000.00     75.28F   2624   654   696637W   MPR   Kramer/Bottlinesu   CR 20   \$150,000.00     71.040   933   944   0872888   MPR   MUNICH/CAVALUER   ND 66   \$150,000.00     68.892   13779   1391   3940635   BMSF   MMSF   MMSF   NSF								
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66.417   854   861   087720K   BMSF   Golf Course/Nidder   22nd Ave SE   \$400,000.00		1379	1391	3940635	BNSF			
66.004 900 901 093642U BMSF Karlaruha/McHenry 47b 51 N \$300,000.00   65.951 962 641 0717888 0MYW COLUMBUS/BURKE ND 40 \$150,000.00   65.055 936 947 067545W BMSF W Richardton/Stark 91st Ave 5W \$300,000.00   57.792 1551 1570 698351Y CMS E Pleas 3witch/Mountrial 61st Ave NW \$220,000.00   56.427 852 862 087705H BMSF W Jowth Heart/Stark 15/2 Ave 5W \$400,000.00   56.417 852 862 087705H BMSF W Jowth Heart/Stark 15/2 Ave 5W \$400,000.00   50.178 2889 2785 1030077 BMSF W Jowth Heart/Stark 15/2 Ave 5W \$400,000.00   50.043 1161 1174 087703M BMSF Dewon/Kidder 35th Ave 5E \$300,000.00   45.542 333 332 090059M BMSF Dewon/Kidder 35th Ave 5E \$300,000.00   45.590 2685 2685 092962R BMSF Fergo.Cass 183rd Ave 5E \$300,000.00   45.190 2685 2685 092962R BMSF Fergo.Cass CR1 \$300,000.00   40.287 2637 2653 071061K BMSF N Erle/Cass CR36 \$300,000.00   584 INCERCASE OF STAR FOR PROVIOUS YEART STAR STAR STAR STAR STAR STAR STAR S		854						
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53.732   1551   1570   693281Y   CPRS   E Plaza Switch/Mountrall   61st Ave NW   \$220,000.00     56.767   787   794   060430Y   BMSF   W South Heart/Stark   125 1/2 Ave SW   \$400,000.00     56.417   632   862   067705H   BMSF   W South Heart/Stark   125 1/2 Ave SW   \$400,000.00     50.178   2889   2785   1030071   BMSF   W South Heart/Stark   125 1/2 Ave SE   \$300,000.00     50.043   1161   1174   067700M   BMSF   Hope/Steele   CR 6   \$400,000.00     45.542   333   332   093045M   BMSF   E Page/Cass   CR 1   \$300,000.00     45.542   333   2685   092962R   BMSF   Fargo,Cass   183rd Ave SE   \$300,000.00     45.542   40.287   2637   2653   071061K   BMSF   Refe/Cass   183rd Ave SE   \$300,000.00     40.287   2637   2653   071061K   BMSF   N Erle/Cass   5300,000.00     40.287   2637   2658   071061K   BMSF   N Erle/Cass   5300,000.00     40.287   2637   2658   071061K   BMSF   N Erle/Cass   5300,000.00     40.287   2637   2658   071061K   BMSF   N Erle/Cass   5300,000.00     40.287   2637   2638   071061K   D ERLE/CASS   D ER		936	947	087545W	BNSF	W Richardton/Stark		
56.417         852         862         087705H         BMSF         W. Dewson/Kidder         33rd Ave SE         \$300,000.00           50.178         2889         2785         1030071         BMSF         Hope/Steele         CR 6         \$400,000.00           50.043         3161         3114         97702M         BMSF         Dewson/Kidder         35th Ave SE         \$300,000.00           45.542         333         332         093045M         BMSF         £ Page/Cass         CR 1         \$300,000.00           45.199         2683         2685         092962R         BMSF         Pargo.Cass         183rd Ave SE         \$300,000.00           40.287         2637         2653         071061K         BMSF         N Erle/Cass         CR 6         \$300,000.00           ***********************************	57.732	1581		693281Y	CPRS			\$220,000.00
Sol.178   2889   2785   1030072   BMSF   Hope/Steele   CR 6   \$400,000.00		787		060430Y	BNSF			
SO_DIS         1161         1174         087702M         Dest         Dewson/Kidder         355h Ave SE         \$300,000.00           45.542         333         352         09005M         MiSF         E Page/Cass         CR1         \$300,000.00           45.190         2683         2685         092962R         BMSF         Fergo.Cass         183rd Ave SE         \$300,000.00           40.287         2637         2653         071061K         BMSF         N Erle/Cass         CR26         \$300,000.00           540.287         X SW STELESASD RSX from previous year         \$19,902,933.88         \$19,902,933.88	56.417	852						\$300,000.00
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40.287 2637 2653 071061K BMSF N Erle/Cass CR26 \$300,000.00								
WWW INCREASED RESK from previous year \$19,502,933.88								
	40.287	2637	2653	071061K	BNSF			
								\$19,502,933.88

PASSIVE PUBLIC AT-GRADE CROSSINGS ON THE STATE HIGHWAY SYSTEM

690539D	DMWW	FREDONIA/LOGAN	ND 56	\$150,000.00
071775A	DMMW	LIGNITE/WARD	ND 89	\$150,000.00
071788B	DMWW	COLUMBUS/BURKE	ND 40	\$150,000.00
081842U	BNSF	JOLIETTE/PEMBINA	ND 5	\$250,000.00
087273L	NPR	MUNICH/CAVALIER	ND 20	\$150,000.00
087238B	NPR	MUNICH/CAVALIER	ND 66	\$150,000.00
102637A	BNSF	CHURCHS FERRY/RAMSEY	US 281	\$250,000.00
103089T	BNSF	PEKIN/NELSON	ND 1	\$250,000.00
690526C	DMWW	KULM/LAMOURE	ND 56	\$150,000.00
698012Y	NPR	WHITMAN/NELSON	ND 35	\$150,000.00
699077V	DMWW	AMBROSE/DIVIDE	ND 42	\$150,000.00

OTHER PASSIVE CROSSINGS ON THE STATE SYSTEM										
087866D		LELAND OLDS PP/MERCER	ND 200A	Bismarck District assisted						
690679F		WISHEK/MdNTOSH	ND 13							
071751L		COTEAU/BURKE	ND 8							
080897D		WOODWORTH/STUTSMAN	ND 36							

Additional crossing that received interim safety measures have been moved to SSM installed tal

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# **MASTER SURFACE REFINED RANKING - December 2021**

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Refined Rank	Exposure Rate	DOT NO.	RR ID.	CITY/COUNTY	STREET NAME	AADT	TPD <1=.75	#TRKS	PAVED	LANES	ANGLE	ним мын	
25,461.50	25,440.00	698937K	CPRS	Burlington/Ward	CR 10/Colton Ave/MC	R 2,120.	00 12	3	Υ	2	90	25	
8,271.00	8,250.00	691880M	CPRS	Enderlin/Ransom	Broadway St/Local R	750.0	0 11	6	Υ	2	85	25	
5,238.00	5,225.00	691957X	CPRS	Wimbledon/Barnes	3rd Ave S/Local R	475.0	0 11	3	Υ	2	90	25	
3,750.00	3,720.00	691864D	CPRS	Anselm/Ransom	CR 54/MC R	310.0	0 12	1	Υ	2	27	55	
1,124.50	1,100.00	693323H	CPRS	Parshall/Mountrail	Mountrail CR 3/Local	R 275.0	0 4	1	Υ	2	80	55	
705.00	690.00	698075D	NPR	Devils Lake/Ramsey	8th Ave NW/MC U	345.0	0 2	1	Υ	2	60	25	
619.50	600.00	087717C	BNSF	Steele/Kidder	25th Ave SE/Local R	50.0	12	1	N	2	80	25	
467.25	446.25	067416C	DMV&W	Rutland/Sargent	CR 10/MC R	595.0	0 <1	1	Υ	2	78	25	
382.50	360.00	699013J	CPRS	SE Flaxton/Burke	CR 15/74th Ave NW/Loc	al R 30.00	12	1	N	2	45	50	
353.50	330.00	691958E	CPRS	Wimbledon/Barnes	96th Ave SE/Local R	30.0	11	2	N	2	70	25	
296.00	285.00	082026C	NPR	Gilby/Grand Forks	GF CR 33/28th Ave/MC	CR 380.0	0 <1	1	Υ	2	90	25	
279.50	250.00	103405N	RRV&W	Crete/Sargent	CR 2/MC R	125.0	0 2	1	Υ	2	65	45	
253.75	221.25	070909T	RRV&W	Horace/Cass	CR 14/46th St SE/MC	R 295.0	0 <1	1	N	2	25	45	
224.25	206.25	1030765	BNSF	McVille/Nelson	CR 18/Main St/MC R	275.0	0 <1	3	N	2	90	25	
178.25	168.75	067408K	DMV&W	Cayuga/Sargent	CR 12/MC R	225.0	0 <1	1	Υ	2	85	25	
146.00	127.50	092967A	BNSF	Prosper/Cass	CR 22/Local R	170.0	0 <1	1	Υ	2	30	40	
137.25	108.75	103007J	BNSF	Hope/Steele	CR 6/Baldwin St/MC F	R 140.0	0 <1	2	N	2	55	25	
133.50	112.50	067400F	DMV&W	S. Geneseo/Sargent	CR 14/MC R	150.0	0 <1	1	Υ	2	90	25	
132.50	100.00	086720G	BNSF	Hatton/Steele	CR 12/Eagle Ave NE/MG	C R 50.0	) 2	1	N	2	55	55	
106.00	82.50	071047P	BNSF	Amenia/Cass	CR 32/MC R	110.0	0 <1	2	Υ	2	90	25	
103.50	60.00	103065E	BNSF	Kloten/Nelson	CR 5/117th Ave NE/MC	CR 80.0	<1	2	N	2	70	25	
101.25	71.25	690492K	DMV&W	MONANGO/DICKEY	CR 3/86th St SE/MC F	R 95.0	<1	1	N	2	23	55	
74.25	56.25	690620R	DMV&W	Kintyre/Emmons	CMC 1529/22nd Ave SE/N	MC R 75.0	<1	3	γ	2	80	25	
71.00	52.50	103090M	BNSF	Pekin/Nelson	CR 16/26th St NE/Local	IR 70.0	<1	1	N	2	30	35	
69.75	56.25	087082B	BNSF	Portland/Trail	4th Street/Local R	75.0	<1	1	γ	2	80	25	
67.50	52.50	103074D	BNSF	E. of McVille/Nelson	CR 35/113th Ave NE/M	C R 70.0	<1	1	N	2	47	30	
56.00	45.00	690625A	DMV&W	Braddock/Emmons	CMC 1523/MC R	60.0	<1	1	γ	2	90	25	
53.75	33.75	103056F	BNSF	Aneta/Nelson	CR 20/19th St NE/MC	R 45.0	<1	1	N	2	50	55	
53.00	37.50	087081U	BNSF	Portland/Trail	7th Street/Local R	50.0	<1	3	Υ	2	80	25	
38.50	30.00	102995J	BNSF	Colgate/Steele	CR 1/10th St SE/Local	R 40.0	<1	1	N	2	50	55	
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